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### NOTICE OF ALLOWANCE AND FEE(S) DUE

38834

7500

04/01/2008

WESTERMAN, HATTORI, DANIELS & ADRIAN, LLP 1250 CONNECTICUT AVENUE, NW SUITE 700 WASHINGTON, DC 20036

EXAMINER				
FAN, HONGMIN				
ART UNIT	PAPER NUMBER			
2612				

DATE MAILED: 04/01/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/584,331	06/26/2006	Takeshi Abe	062645	9647	

TITLE OF INVENTION: APPARATUS FOR DETERMINING TYPE OF LIQUID IN A CONTAINER AND METHOD FOR CONTROLLING THE APPARATUS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	07/01/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where ap in m

maintenance fee notifications.  CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				e(s) Transmittal. Thi pers. Each additiona	s certif l paper,	icate cannot be used f	or domestic mailings of the for any other accompanying ent or formal drawing, must
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1250 CONNECT SUITE 700	TICUT AVENUE, I	NIELS & ADRIA NW	N, LLP I h Sta adc trai	ereby certify that th	is Fee(s	s) Transmittal is being	g deposited with the United st class mail in an envelope above, or being facsimile late indicated below.
WASHINGTON	, DC 20036						(Depositor's name)
							(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	₹	ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
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nonprovisional	NO	\$1440	\$300	\$0		\$1740	07/01/2008
EXAM	INER	ART UNIT	CLASS-SUBCLASS	]			
FAN, HO	NGMIN	2612	340-589000				
<ol> <li>Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).</li> <li>Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.</li> <li>"Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.</li> </ol>			or agents OR, alternate  (2) the name of a sing registered attorney or	s of up to 3 registered patent attorneys t, alternatively, of a single firm (having as a member a torney or agent) and the names of up to patent attorneys or agents. If no name is			
PLEASE NOTE: Unle recordation as set forth (A) NAME OF ASSIC	ess an assignee is identi n in 37 CFR 3.11. Comp GNEE	ified below, no assignee oletion of this form is NO	T a substitute for filing an  (B) RESIDENCE: (CIT)	patent. If an assign assignment. Y and STATE OR C	OUNT	RY)	ocument has been filed for
Please check the appropri	ate assignee category or	categories (will not be pr	rinted on the patent):	Individual ☐ Co	rporati	on or other private gro	oup entity 🖵 Government
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	s SMALL ENTITY statu	is. See 37 CFR 1.27.	☐ b. Applicant is no los				
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Authorized Signature				Date			
This collection of informan application. Confident submitting the completed this form and/or suggesti Box 1450, Alexandria, Valexandria, Virginia 223	iality is governed by 35 I application form to the ons for reducing this bui irginia 22313-1450. DC	FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to the DNOT SEND FEES OR	on is required to obtain or 1.14. This collection is es r depending upon the indi e Chief Information Offic COMPLETED FORMS T	retain a benefit by t stimated to take 12 revidual case. Any co eer, U.S. Patent and O THIS ADDRESS	he publ minutes mment Tradem 5. SENI	ic which is to file (and to complete, including son the amount of the transfer, U.S. Deporto: Commissioner	d by the USPTO to process, ng gathering, preparing, and me you require to complete artment of Commerce, P.O for Patents, P.O. Box 1450

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			ART UNIT	PAPER NUMBER	
SUITE 700 WASHINGTON, DC 20036			2612 DATE MAILED; 04/01/200	8	

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 219 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 219 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	
	10/584,331	ABE ET AL.	
Notice of Allowability	Examiner	Art Unit	
	HONGMINI FANI	2612	
	HONGMIN FAN	2612	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.31:	6 (OR REMAINS) CLOSED in ) or other appropriate comm RIGHTS. This application is:	n this application. If not included unication will be mailed in due cours	e. <b>THIS</b> he initiative
1. $\boxtimes$ This communication is responsive to <u>6/26/2006</u> .			
2. ☑ The allowed claim(s) is/are <u>1-34</u> .			
3. Acknowledgment is made of a claim for foreign priority u  a) All b) Some* c) None of the:		or (f).	
1. Certified copies of the priority documents have			
2. Certified copies of the priority documents have	• •		
3. Copies of the certified copies of the priority do	ocuments have been receive	d in this national stage application fr	om the
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		e a reply complying with the requiren	nents
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which giv			E OF
5. CORRECTED DRAWINGS ( as "replacement sheets") mu	st be submitted.		
(a) I including changes required by the Notice of Draftsper	son's Patent Drawing Revie	w ( PTO-948) attached	
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date	_•		
(b) I including changes required by the attached Examiner	's Amendment / Comment o	r in the Office action of	
Paper No./Mail Date			
Identifying indicia such as the application number (see 37 CFR areach sheet. Replacement sheet(s) should be labeled as such in			) of
<ol> <li>DEPOSIT OF and/or INFORMATION about the depo- attached Examiner's comment regarding REQUIREMENT</li> </ol>			he
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. □ Notice of Ir	oformal Patent Application	
<ol> <li>Notice of Preferences Check (1 10-032)</li> <li>D Notice of Draftperson's Patent Drawing Review (PTO-948)</li> </ol>		ummary (PTO-413),	
	Paper No.	/Mail Date Amendment/Comment	
3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	_		
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material		Statement of Reasons for Allowance	e
	9. 🔲 Other	_·	

#### **DETAILED ACTION**

## Allowable Subject Matter

Claims 1-34 are allowed. The following is an examiner's statement of reasons for allowance: Prior art fails to show an apparatus for determining the type of liquid in a container comprising: a heat source disposed outside a container; a temperature sensor disposed near said heat source for converting the temperature of an outer wall of said container into a voltage or a current; a notification means capable of issuing an alert indicating that the content of said container is dangerous; and a control determination circuit whereby the supply of power to said heat source is controlled, the difference between the value of an output of said temperature sensor at time t1 which is before or upon the supply of power to said heat source and the value of an output of said temperature sensor at time t1+t2, which is when a predetermined time has elapsed after said time t1, is compared with a predetermined threshold value, and an alert signal is outputted to said notification means.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Art Unit: 2612

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hongmin Fan whose telephone number is 571-272-2784. The examiner can normally be reached on Monday - Friday, 8:00 am - 4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Davetta Goins can be reached on 571-272-2957. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

HF

/Davetta W. Goins/

Acting SPE of Art Unit 2612